ENTERED

Washington KU/09

Serial Number: 09/830,810

CRF Processing Date: 5/18/2001
Edited by: _____
Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII

- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

- ☐ Edited a format error in the Current Application Data section, specifically: _____

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____ .

- ☐ Added the mandatory heading and subheadings for "Current Application Data".

- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- ☐ Inserted colons after headings/subheadings. Headings edited included: _____

- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____

- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

- ☐ Inserted mandatory headings, specifically: _____

- ☐ Corrected an obvious error in the response, specifically: _____

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

- ☐ Corrected an error in the Number of Sequences field, specifically: _____

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

10 Ree PCT/PTO 2 7 APR 2001

RAW SEQUENCE LISTING   DATE: 05/29/2001
PATENT APPLICATION: US/09/830,810   TIME: 19:12:50

Input Set : **A:\Pto.amc**
Output Set: **C:\CRF3\05292001\I830810.raw**

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   5        Pei, Wang
   9 <120> TITLE OF INVENTION: OVARY SPECIFIC GENES AND PROTEINS
  13 <130> FILE REFERENCE: P01925WOO / 09807797 / OTA 99-48
C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/830,810
C--> 19 <141> CURRENT FILING DATE: 2001-04-27
  23 <150> PRIOR APPLICATION NUMBER: 60/106,020
  25 <151> PRIOR FILING DATE: 1998-10-28
  29 <160> NUMBER OF SEQ ID NOS: 15
  33 <170> SOFTWARE: PatentIn version 3.0
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  41 <212> TYPE: DNA
  43 <213> ORGANISM: Mus musculus
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  52 cgacccgcgc ccccctcctt cctccccggc tacagacagc tcatggccgc ggagtacgtc     180
  54 gacagccacc agcgggcaca gctcatggcc ctgctgtcgc ggatgggtcc ccggtcggtc     240
  56 agcagccgtg acgctgcggt gcaggtgaac ccgcgccgcg acgcctcggt gcagtgttca     300
  58 ctcgggcgcc gcacgctgca gcctgcaggg tgccgagcca gccccgacgc ccgatcgggt     360
  60 tcctgtcaac cccgtggcca cgccggcgcc gggagatccc cgcgatcctg gcagaccgta     420
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  64 aggcagacac ccacgaaggg agaggggagc ccggcatcct cggggacccg ggaaccggag     540
  66 ccgagagagg tggccgcgag gaaagcggtc ccccagccgc gaagcgagga gggcgatgtt     600
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  72 gaccccggtg attcggatgc ccctcgagac caggcctccc cgcaaagcac ggagcaggac     780
  74 aaggagcgcc tgcgtttcca gttcttagag cagaagtacg gctactatca ctgcaaggac     840
  76 tgcaaaatcc ggtgggagag cgcctatgtg tggtgtgtgc agggcaccag taaggtgtta     900
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  82 ccctaaacgc ccccatcggc aagacttgtg tgggagatgc aaggacaaac gcctgtcctg    1080
  84 cgacagcacc ttcagcttca aatacatcat ttagtgagag tcgaaaacgt ttctgctaga    1140
  86 tggggctaat ggaatggaca agtgagcttt ctcccctctt cacctcttcc ctttccaaat    1200
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  97 <212> TYPE: PRT
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 109             20                  25                  30
 111 Pro Ala Pro Pro Ser Phe Leu Pro Gly Tyr Arg Gln Leu Met Ala Ala
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5/29/01

RAW SEQUENCE LISTING   DATE: 05/29/2001
PATENT APPLICATION: **US/09/830,810**   TIME: 19:12:50

Input Set : **A:\Pto.amc**
Output Set: **C:\CRF3\05292001\I830810.raw**

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118 65                   70                    75                    80
120 Asn Pro Arg Arg Asp Ala Ser Val Gln Cys Ser Leu Gly Arg Arg Thr
121                  85                    90                    95
123 Leu Gln Pro Ala Gly Cys Arg Ala Ser Pro Asp Ala Arg Ser Gly Ser
124                 100                   105                   110
126 Cys Gln Pro Arg Gly His Ala Gly Ala Gly Arg Ser Pro Arg Ser Trp
127         115                   120                   125
129 Gln Thr Val Ala Pro Phe Ser Ser Val Thr Phe Cys Gly Leu Ser Ser
130     130                   135                   140
132 Ser Leu Glu Val Ala Gly Gly Arg Gln Thr Pro Thr Lys Gly Glu Gly
133 145                   150                   155                   160
135 Ser Pro Ala Ser Ser Gly Thr Arg Glu Pro Glu Pro Arg Glu Val Ala
136                 165                   170                   175
138 Ala Arg Lys Ala Val Pro Gln Pro Arg Ser Glu Glu Gly Asp Val Gln
139             180                   185                   190
141 Ala Ala Gly Gln Ala Gly Trp Glu Gln Gln Pro Pro Pro Glu Asp Arg
142             195                   200                   205
144 Asn Ser Val Ala Ala Met Gln Ser Glu Pro Gly Ser Glu Glu Pro Cys
145     210                   215                   220
147 Pro Ala Ala Glu Met Ala Gln Asp Pro Gly Asp Ser Asp Ala Pro Arg
148 225                   230                   235                   240
150 Asp Gln Ala Ser Pro Gln Ser Thr Glu Gln Asp Lys Glu Arg Leu Arg
151                 245                   250                   255
153 Phe Gln Phe Leu Glu Gln Lys Tyr Gly Tyr Tyr His Cys Lys Asp Cys
154             260                   265                   270
156 Lys Ile Arg Trp Glu Ser Ala Tyr Val Trp Cys Val Gln Gly Thr Ser
157     275                   280                   285
159 Lys Val Tyr Phe Lys Gln Phe Cys Arg Val Cys Glu Lys Ser Tyr Asn
160     290                   295                   300
162 Pro Tyr Arg Val Glu Asp Ile Thr Cys Gln Ser Cys Lys Arg Thr Arg
163 305                   310                   315                   320
165 Cys Ala Cys Pro Val Arg Phe Arg His Val Asp Pro Lys Arg Pro His
166                 325                   330                   335
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172         355                   360
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189 cagagtctac tgaggatga ggccttggcc atttctgctc tcacggacct gccccagagt      180
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      5/29/01

RAW SEQUENCE LISTING   DATE: 05/29/2001
PATENT APPLICATION: US/09/830,810   TIME: 19:12:50

Input Set : A:\Pto.amc
Output Set: C:\CRF3\05292001\I830810.raw

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195 ctggagactt tgaaggctat gcttgaggga ctagatatac tgcttgcaca aaaggttcaa  360
197 accagtaggt gcaaactcag agtaattaat tggagagaag atgacttgaa gatatgggct  420
199 ggatcccatg aaggtgaagg cttaccagat ttcaggacag agaagcagcc aattgagaac  480
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203 ggcagacttg atgaatctac cacatacttg ttgcagtggg cccagcagag aaaagattct  600
205 attcatctat tctgtagaaa gctactaatt gaaggcttaa ccaaagcctc agtgatagaa  660
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209 gaagagttgg ctttttcttaa tccctacctg aaactgatga aaagtctttt cacactcaca  780
211 ctagatcaca tcataggtac cttcagtttg ggtgattctg aaaagcttga tgaggagaca  840
213 atattcagct tgatttctca acttcccaca ctccactgtc tccagaaact ctatgtaaat  900
215 gatgtccctt ttataaaagg caacctgaaa gaatacctca ggtgcctgaa aaagcccttg  960
217 gagacacttt gcatcagtaa ctgtgacctc tcacagtcag acttggattg cctgccctat  1020
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221 ctccttgagc ctcttggttt tctccttgag agagttggag ataccctgaa aaccctggaa  1140
223 ttggattcat gttgtatagt ggactttcag ttcagtgcct tgctgcctgc cctaagccaa  1200
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237 gatgaaatcc taagtgaatg tccactgcta aatggagcat gaaaatgtca atcacctaaa  1620
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241 tgtagaaagt atcaagcact gtagtttga atgtgttaca atagaagcac cattttatga  1740
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252 <212> TYPE: PRT
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264             20                  25                  30
266 Gln Ser Leu Leu Arg Asp Glu Ala Leu Ala Ile Ser Ala Leu Thr Asp
267         35                  40                  45
269 Leu Pro Gln Ser Leu Phe Pro Val Ile Phe Glu Glu Ala Phe Thr Asp
270     50                  55                  60
272 Gly Tyr Ile Gly Ile Leu Lys Ala Met Ile Pro Val Trp Pro Phe Pro
273 65                  70                  75                  80
275 Tyr Leu Ser Leu Gly Lys Gln Ile Asn Asn Cys Asn Leu Glu Thr Leu
276                 85                  90                  95
278 Lys Ala Met Leu Glu Gly Leu Asp Ile Leu Leu Ala Gln Lys Val Gln
279                 100                 105                 110
281 Thr Ser Arg Cys Lys Leu Arg Val Ile Asn Trp Arg Glu Asp Asp Leu
282         115                 120                 125
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     5/29/01

RAW SEQUENCE LISTING   DATE: 05/29/2001
PATENT APPLICATION: US/09/830,810   TIME: 19:12:50

Input Set : A:\Pto.amc
Output Set: C:\CRF3\05292001\I830810.raw

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290 Glu Leu Lys Val Thr Thr Glu Val Leu Arg Met Lys Gly Arg Leu Asp
291             165             170             175
293 Glu Ser Thr Thr Tyr Leu Leu Gln Trp Ala Gln Gln Arg Lys Asp Ser
294             180             185             190
296 Ile His Leu Phe Cys Arg Lys Leu Leu Ile Glu Gly Leu Thr Lys Ala
297         195             200             205
299 Ser Val Ile Glu Ile Phe Lys Thr Val His Ala Asp Cys Ile Gln Glu
300         210             215             220
302 Leu Ile Leu Arg Cys Ile Cys Ile Glu Glu Leu Ala Phe Leu Asn Pro
303 225             230             235             240
305 Tyr Leu Lys Leu Met Lys Ser Leu Phe Thr Leu Thr Leu Asp His Ile
306             245             250             255
308 Ile Gly Thr Phe Ser Leu Gly Asp Ser Glu Lys Leu Asp Glu Glu Thr
309             260             265             270
311 Ile Phe Ser Leu Ile Ser Gln Leu Pro Thr Leu His Cys Leu Gln Lys
312         275             280             285
314 Leu Tyr Val Asn Asp Val Pro Phe Ile Lys Gly Asn Leu Lys Glu Tyr
315         290             295             300
317 Leu Arg Cys Leu Lys Lys Pro Leu Glu Thr Leu Cys Ile Ser Asn Cys
318 305             310             315             320
320 Asp Leu Ser Gln Ser Asp Leu Asp Cys Leu Pro Tyr Cys Leu Asn Ile
321             325             330             335
323 Cys Glu Leu Lys His Leu His Ile Ser Asp Ile Tyr Leu Cys Asp Leu
324             340             345             350
326 Leu Leu Glu Pro Leu Gly Phe Leu Leu Glu Arg Val Gly Asp Thr Leu
327         355             360             365
329 Lys Thr Leu Glu Leu Asp Ser Cys Cys Ile Val Asp Phe Gln Phe Ser
330         370             375             380
332 Ala Leu Leu Pro Ala Leu Ser Gln Cys Ser His Leu Arg Glu Val Thr
333 385             390             395             400
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345 <212> TYPE: DNA
347 <213> ORGANISM: Mus musculus
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356 cacaacacct ccaccaagcc gccctgtaaa tcgacatgag tcgccacagc accagcagcg  180
358 tgaccgaaac cacagcaaaa aacatgctct ggggtagtga actcaatcag gaaaagcaga  240
360 cttgcacctt tagaggccaa ggcgagaaga aggacagctg taaactcttg ctcagcacga  300
362 tctgcctggg ggagaaagcc aaagaggagg tgaaccgtgt ggaagtcctc tcccaggaag  360
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5/29/01

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372 agatacctgt caaacaagtc aaaagggtgg ctccccagaa gcagatgagc atagcaaaga    660
374 aaaagaaggt ggaaaaagaa gaggatgaaa cagtagtgag gcccagccct caggacaaga    720
376 gtccctggaa gaaggagaaa tctacaccca gagcaaagaa gccagtgacc aagaaatgac    780
378 ctcatcttag catcttctgc gtccaaggca ggatgtccag cagctgtgtt ttggtgcagg    840
380 tgtccagccc caccaccta gtctgaatgt aataaggtgg tgtggctgta accctgtaac    900
382 ccagccctcc agtttccgga ggtttttggt gaagagcccc cagcaagttc gcctagggcc    960
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389 <211> LENGTH: 207
391 <212> TYPE: PRT
393 <213> ORGANISM: Mus musculus
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403             20                  25                  30
405 Arg Gly Gln Gly Glu Lys Lys Asp Ser Cys Lys Leu Leu Leu Ser Thr
406         35                  40                  45
408 Ile Cys Leu Gly Glu Lys Ala Lys Glu Glu Val Asn Arg Val Glu Val
409     50                  55                  60
411 Leu Ser Gln Glu Gly Arg Lys Pro Pro Ile Thr Ile Ala Thr Leu Lys
412 65                  70                  75                  80
414 Ala Ser Val Leu Pro Met Val Thr Val Ser Gly Ile Glu Leu Ser Pro
415                 85                  90                  95
417 Pro Val Thr Phe Arg Leu Arg Thr Gly Ser Gly Pro Val Phe Leu Ser
418                 100                 105                 110
420 Gly Leu Glu Cys Tyr Glu Thr Ser Asp Leu Thr Trp Glu Asp Asp Glu
421             115                 120                 125
423 Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Glu Asp Ala Asp
424         130                 135                 140
426 Ile Ser Leu Glu Glu Ile Pro Val Lys Gln Val Lys Arg Val Ala Pro
427 145                 150                 155                 160
429 Gln Lys Gln Met Ser Ile Ala Lys Lys Lys Val Glu Lys Glu Glu
430                 165                 170                 175
432 Asp Glu Thr Val Val Arg Pro Ser Pro Gln Asp Lys Ser Pro Trp Lys
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442 <212> TYPE: DNA
444 <213> ORGANISM: Mus musculus
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VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/830,810**

DATE: 05/29/2001
TIME: 19:12:51

Input Set : **A:\Pto.amc**
Output Set: **C:\CRF3\05292001\I830810.raw**

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date

5/29/01

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     RAW SEQUENCE LISTING              DATE: 05/18/2001
     PATENT APPLICATION:  US/09/830,810    TIME: 11:00:50

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     Output Set: N:\CRF3\05182001\I830810.raw
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     3 <110> APPLICANT: Matzuk, Martin
     4        Pei, Wang
     6 <120> TITLE OF INVENTION: OVARY SPECIFIC GENES AND PROTEINS
     8 <130> FILE REFERENCE: P01925WOO / 09807797 / OTA 99-48
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/830,810
C--> 11 <141> CURRENT FILING DATE: 2001-04-27
    13 <150> PRIOR APPLICATION NUMBER: 60/106,020
    14 <151> PRIOR FILING DATE: 1998-10-28
    16 <160> NUMBER OF SEQ ID NOS: 15
    18 <170> SOFTWARE: PatentIn version 3.0
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Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

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   513 atgt                                                                364
E--> 523 25022143.1          Page 1
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VERIFICATION SUMMARY   DATE: 05/18/2001
PATENT APPLICATION: US/09/830,810   TIME: 11:00:51

Input Set : A:\P01925US1 seq list.txt
Output Set: N:\CRF3\05182001\I830810.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:523 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:369 SEQ:15
L:523 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:12
L:523 M:252 E: No. of Seq. differs, <211>LENGTH:Input:364 Found:369 SEQ:15